

FUEL MIXTURE RATIO CONTROL VALVE (FMRCV) NOMOGRAPH

For instructions on use see Table XVII

ADJUST FMRCV VIA NOMOGRAPH

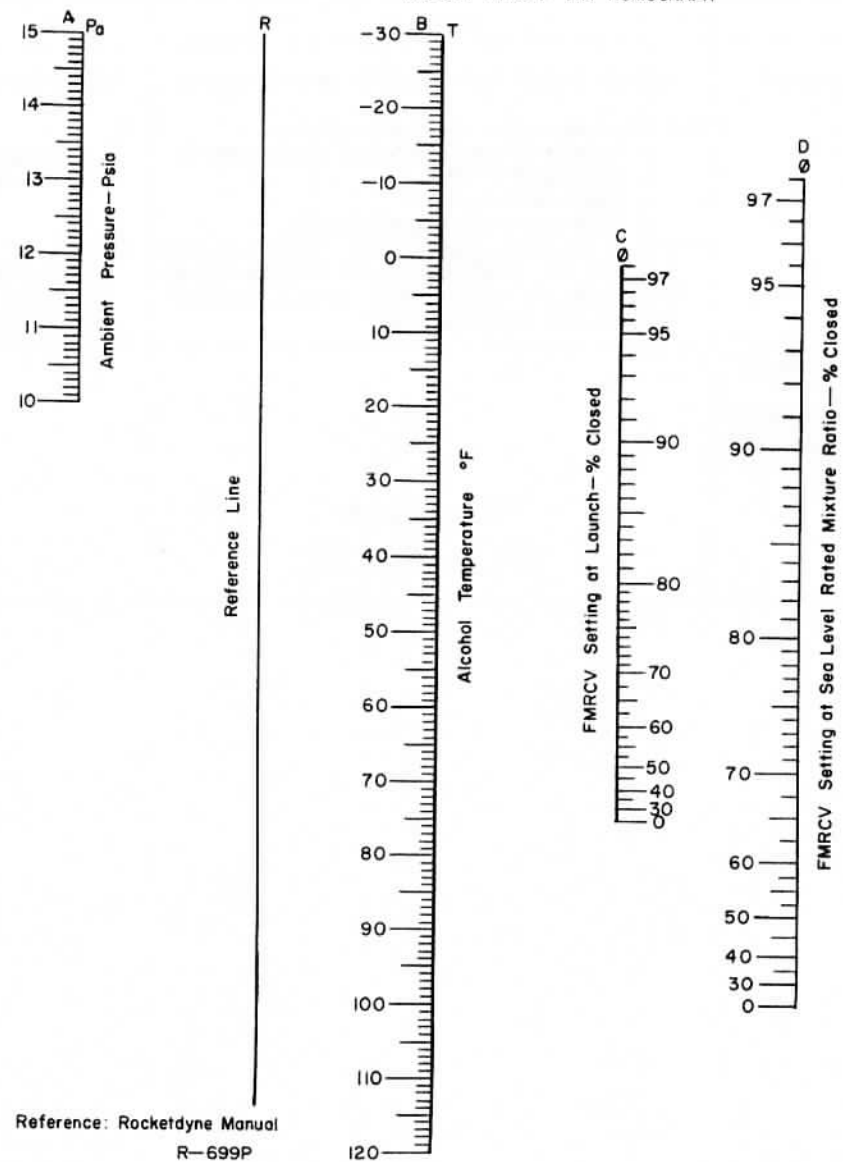


Figure 3.

Table XVII

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
PREPARATIONS FOR FIRING AND FIRING OPERATIONS	PREPARATIONS FOR FIRING AND FIRING OPERATIONS 1. Turn Operations Selector switch to Prelaunch (EP). Guidance OK lamp on (PP).	PREPARATIONS FOR FIRING AND FIRING OPERATIONS 1. Insure Control Computer switch is on.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS	PREPARATIONS FOR FIRING AND FIRING OPERATIONS 1. Insure program device power switch is On (PD). a. Zero lamp On. b. Reverse lamp On.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS 1. Insure Fire Command switch is Off (RF).	PREPARATIONS FOR FIRING AND FIRING OPERATIONS 1. Purge the injector plate (missile). a. At the valve box, crack the purge and igniter valve until the escape of air from the injector plate becomes audible. b. After 2 minutes, close the purge and igniter valve (VB). c. Disconnect hose from the purge inlet on missile balcony and connect to pressurizing inlet on igniter ALC bottle. d. Open purge and igniter valve on valve box.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS 1. Compute Fuel Mixture Ratio Control Valve (FMRCV) setting (fig. 3). (Nomograph is furnished as on-vehicle equipment of Test Station.) a. The following factors must be obtained to compute the required setting: (1) Barometric Pressure in psia. (2) Fuel Temperature at approximately x - 30 minutes; this is to be obtained from the ALC Temperature Meter on the Propulsion Control Panel in the Test Station. (3) The percentage closed value at sea-level of the FMRCV. This value is stamped on a metal tag attached to the valve. b. The following steps are used to compute the required setting using the Nomograph provided:

Table XVII—Continued

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Con.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	<p>PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued</p> <p>(1) On scale A place a dot at the determined Barometric pressure.</p> <p>(2) On scale B place a dot at the determined Fuel temperature.</p> <p>(3) Draw a straight line between these two points.</p> <p>(4) On scale D place a dot at the value obtained from the tag on the FMRCV.</p> <p>(5) Draw a straight line from the point on scale D to the point that the line from scale A to B crosses the reference line.</p> <p>(6) The FMRCV setting is indicated on scale C where the line from scale D to the reference line crosses scale C.</p> <p>2. Set FMRCV.</p> <p>a. Depress lever behind adjustment control knob until locking pin is released.</p>

Table XVII—Continued

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Con.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued b. Turn adjustment control knob until required setting is indicated on calibrated dial. c. Release lever behind adjustment control knob. Make sure that locking pin is secure.
	3. Monitor GEN BUS, INV BUS, COMM BUS Meters and insure voltage is present (EP).	3. Dial H on Function Selector switch (SC). H Attitude Signal lamp On (SC).	3. Dial 9 on Function Selector switch (RP). a. Indicator 9 Ready lamp On (RP). b. Power On lamp On (RP).	3. Dial 9 on Function Selector switch (LP). a. Indicator 9 Ready lamp On (LP). b. Power On lamp On (LP).	3. Connect P-4005 to Tail Distributor of Missile.		3. Remove inside tail access platform (s) and close door between fins III and IV.
		INSURE BURST OPTION SELECTOR SWITCH IS CORRECTLY SET ACCORDING TO ORDERS.					
	4. Observe and Record the Alcohol and H ₂ O ₂ temperatures (PP). a. Alcohol temperature must be at least Required minimum temperature.	4. Rotate Selector Switch to war-head arm position (CM). a. Power lamp remains On (CM). b. Air (or Surface) lamps remain On (CM).					4. Remove Deflector Burner platform from launcher.

Table XVII—Continued

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Con.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued b. H_2O_2 temperature must be between 65° and 85° F. NOTIFY PERSONNEL AT MISSILE THAT LOX REPLENISHING IS STARTING.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued c. Warhead continuity lamps remain On (CM). d. S&A Continuity lamps remain On (CM). e. Warhead Arm lamps come On (CM). f. Warhead Safe lamps Off (CM).	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued
	5. Turn and hold LOX replenish switch to the Fill position until notified by servicing section that LOX overflows thru LOX vent conduit.				NOTE For training exercises, do not install mainstage stick into holder on valve box. Electrically connect and displace mainstage stick in the vicinity of the Relay Box. 5. Insert and secure Mainstage Stick into holder on Valve Box; connect the Mainstage Stick to Ignition Harness (W51432) plug P-4815.	5. Turn the ALC Bubbling switch Off (VB) and insure that the following conditions exist at the Valve Box: a. Sphere Bypass valve is closed. b. Air Regulator Inlet valve is Open. c. Purge and Igniter ALC Bottle Pressurizing Valve is open. THE VALVE BOX SUPPLY PRESSURE GAGE INDICATES 2,000 PSI, AND REGULATOR PRESSURE GAGE INDICATES 750 PSI.	5. Notify Propulsion Panel operator when LOX overflows thru LOX vent conduit.

Table XVII—Continued

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Con.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued 6. Turn LOX Replenish switch to Off (PP).	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued NOTIFY PERSONNEL WORKING AT THE MISSILE BASE THAT RUDDER DRIVE IS TO BE TURNED ON.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued 6. Close Cover on Valve Box and secure.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued 6. Remove LOX vent conduit outside tail access ladder between fins 3 and 4 and all excess equipment from firing position.
	7. Voltages OK lamp On (PP).	7. Turn Rudder Drive switch On. Vane position meters indicate 0 ± 1.5 degrees.			7. a. Power OK lamps On (RF). b. Vane position meters indicate $0 \pm 1.5^\circ$ (RF). VANE POSITION METERS ARE CONTINUOUSLY MONITORED UNTIL FIRING (RF).		7. Insure erecting cables have been removed from the missile.
	8. a. Links OK lamp On (PP). b. Remote Ready lamp On (PP).				8. Connect ignition harness (W51432) to J-3219 on Relay Box.		
	9. a. Links OK lamp Off (PP). b. Remote Ready lamp Off (RP).				9. Disconnect ignition harness (W51432) from J-3219 on Relay Box.		
	10. Turn Combustion Chamber sensing switch to No pressure position (PP).						

Table XVI—Continued

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Con.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued
	11. Turn operations selector switch to Remote: Warhead OK lamp On (PP). MISSILE CONTROL IS NOW AT REMOTE FIRING PANEL	11. a. Warhead arm lamps Off (CM). b. S&A Continuity lamps Off (CM). c. Warhead continuity lamps Off (CM).		11. Velocity and Displacement meters indicate Off (LP).	11. a. Remote Command lamp On (RF). b. Warhead OK lamp On (RF). ALL CONTROL OF THE MISSILE IS NOW AT THE REMOTE FIRING PANEL.		
12. Leave all switches in operating condition and verify indications. a. Power lamp On (PG). b. Inverter phase lamps On (IC). c. Inverter voltmeter indicates 115 ± 2 volts when switch is rotated through AB, BC, AC positions (IC). d. Air Conditioner circuit breaker OFF (if on). e. Heater switch OFF (if on).	12. Leave all switches in operating condition and verify indications. a. Plugs OK lamp On (PP). b. Low Pressure OK lamp On (PP). c. Voltages OK lamp On (PP). d. Guidance OK lamp On (PP). e. Warhead OK lamp On (PP). f. Drop Tank OK lamp On (PP). g. Detonators Connected lamp On (PP). h. 60 cps power	12. Leave all switches in operating condition and verify indications. a. Indicator H lamp On (SC). b. X Attitudes meter indicates zero (SC). c. Y and Z Attitudes meters indicate approximately zero degrees (SC). d. Uncage lamp On (SC). e. Program Zero lamp On (SC). f. Air Pressure Supply lamp On (SC). g. Air Pressure Platform lamp	12. Leave all switches in operating condition and verify indications. a. Indicator 9 (Ready) lamp On (RP). b. Velocity Brake lamp On (RP). c. Displacement Brake lamp On (RP). d. 400 cps Power On lamp On (RP). e. Reset lamp On (VT).	12. Leave all switches in operating condition and verify indications. a. Indicator 9 (Ready) lamp On (LP). b. Velocity and Displacement detent meters indicate Off (LP). c. 400 cps Power On lamp On (LP). d. Calibration Time lamp On (LC). e. Reset lamp On (VT). f. Zero lamp On (PD). g. Reverse lamp On (PD).	12. Verify the following indications: a. Remote command lamp On (RF). b. Warhead OK lamp on (RF). c. Vane Position meters indicate $0 \pm 1.5^\circ$ (RF). FIRING MUST OCCUR WITHIN 45 MINUTES OF DISCONNECTION OF TEST STATION. IN THE EVENT OF A DELAY RECONNECT THE TEST STATION, (TABLE XIX).	12. Insure that the General BUS, Inverter BUS, and Command BUS meters indicate the voltage value recorded during the Power Transfer test (PDS).	12. Prepare LN ₂ cooling system for firing. a. Turn Auto/Man switch to Man until full lamp comes on. b. Turn Auto/Man switch off. (1) Fill valve closed lamp on. (2) Ground power lamp on. (3) Tank full lamp on. c. Close supply valve on LN ₂ trailer. d. Vent supply hose by actuating pressure relief valve on LN ₂ outlet tee. e. Disconnect LN ₂ hose at

Table XVII—Continued

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Con.	<p>PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued</p> <p>On lamp On (EP).</p> <p>i. Command, Networks and Inverter BUS meters indicate voltage is present (EP).</p>	<p>PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued</p> <p>On (SC).</p> <p>h. Air heater lamp Cycles (SC).</p> <p>i. Vane Positions meters indicate ± 1.5 degrees (SP).</p> <p>j. Step switch zero lamp On (SP).</p> <p>k. Dive Program Zero lamp On (SP).</p> <p>l. Guidance Signal Off lamp On (SP).</p> <p>m. Power On lamps On (CM).</p> <p>n. Air (or surface) lamps On (according to firing orders) (CM).</p>	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	<p>PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued</p> <p>IN ORDER TO VERIFY THAT LATERAL AND RANGE COMPUTER TESTS, TABLE XIV, ARE WITHIN TOLERANCE.</p>	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	<p>PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued</p> <p>ground end of missile hose.</p> <p>f. Disconnect LN₂ hose from trailer.</p> <p>g. Vent LN₂ trailer and remove from the area.</p> <p>h. Insure that cables and hose are staked approximately 70 feet from the missile and in line with the drop tank and missile center.</p> <p>i. Close the cover on the LN₂ control box and protect with sandbags.</p>

Table XVII—Continued

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Con.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	<p>PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued</p> <p>13. Disconnect the cables connecting the Test Station in the following order at approximately X-20 minutes.</p> <p>IF CABLES ARE DISCONNECTED OUT OF SEQUENCE, THE CABLE DISCONNECT ALARM WILL AUTOMATICALLY SET OFF. THE CABLE THAT HAS BEEN REMOVED OUT OF SEQUENCE MUST IMMEDIATELY BE REPLACED. INTERMITTENT RINGING DURING DIS CONNECTION CAN BE DISREGARDED.</p> <p>a. W-3555; P-1026 (TS) and P-3206 (RB).</p> <p>b. W-3554; P-1022 (TS) and P-3205 (RB).</p> <p>c. W-3556; P-1021 (TS) and P-3204 (RB).</p>	<p>PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued</p> <p>13. Assist the Firing Section in disconnecting the necessary electrical cables, preparatory to firing.</p>	<p>PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued</p> <p>13. Remove heater duct from missile and remove heater from the area.</p>

Table XVII—Continued

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Con.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued d. W-3551; P-1023 (TS) and P-4103D (missile). e. W-3802; P-1025 (TS) and P-6701C (missile). CABLE W-3802 MAY HAVE BEEN REMOVED PRIOR TO ERECTION. f. W-3834; P-4 (TS) and AC Distribution Box.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued
THE TEST STATION CAN LEAVE THE AREA AS SOON AS IT IS DISCONNECTED AND ITS EQUIPMENT IS STORED.					14. Disconnect and stow the telephone at the launcher.	14. Disconnect the Ground Cable from the Test Station.	14. Free the missile by releasing the attaching collars.
					15. Insure that all unnecessary equipment is out of the firing position.	15. Insure that all unnecessary equipment is out of the firing position.	15. Insure that all unnecessary equipment is out of the firing position.
					16. Clear the area of all unnecessary personnel.	16. Clear the area of all unnecessary personnel. Air Servicer operator remains at his station.	16. Clear the area of all unnecessary personnel.

Table XVII—Continued

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Con.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	<p>PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued</p> <p>NOTE In training exercises, do not install P-4017. P-4017 will only be installed when the order is given to clear the firing position just prior to actual firing of the missile.</p>	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued
					<p>IN STEP 17 REMOVE P-4017 IMMEDIATELY IF ANY VALVE OPERATION IS HEARD DURING INSTALLATION.</p> <p>17. Install P-4017 in the tail distributor, close access door, and remove tail access ladder from the firing position.</p>		
					18. Connect P-3219 to J-3219 on Relay Box.	18. Turn the 3,000 psi solenoid switch Off (Air Servicer).	
					<p>19. Preparation Complete lamp will come on after a short delay (RF).</p> <p>ALL SUBSEQUENT OPERATIONS OCCUR AT THE REMOTE FIRING PANEL.</p>	<p>19. Set the 3,000 psi regulator to 3,150 psi and turn the 3,000 psi solenoid switch On (Air Servicer).</p> <p>ALL PERSONNEL MUST BE CLEAR OF THE FIRING POSITION.</p>	

Table XVII—Continued

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Con.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued
					20. AT X—6 minutes depress and hold LOX Replenishing Switch in the Fill position. Missile LOX tank fills and overflows through LOX Vent Valve.		
					21. Release the LOX Replenish switch when missile tank overflows.		
					NOTE During training exercises the Safety Cover over the firing switch on the remote firing panel will not be raised. <i>Do not depress fire switch.</i> 22. At X—0 minutes depress FIRE switch and hold for 1 second. IF LIFTOFF DOES NOT OCCUR WITHIN 30 SECONDS, DEPRESS FIRE SWITCH AGAIN. IF LIFTOFF		

Table XVII—Continued

Test station					Firing area		
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section	
						Electrical and pneumatic	Handling and fueling
PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Con.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued DOES NOT OCCUR AFTER AN ADDITIONAL MINUTE, DEPRESS EMERGENCY CUTOFF SWITCH AND REFER TO TABLE XX FOR RETESTING PROCEDURES.	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued	PREPARATIONS FOR FIRING AND FIRING OPERATIONS—Continued
END OF TABLE XVII	END OF TABLE XVII	END OF TABLE XVII	END OF TABLE XVII	END OF TABLE XVII	END OF TABLE XVII	END OF TABLE XVII	END OF TABLE XVII

Table XVIII

Firing area		
Firing section	Servicing section	
	Electrical and pneumatic	Handling and fueling
POST FIRING OPERATIONS	<p>POST FIRING OPERATIONS</p> <ol style="list-style-type: none"> 1. Immediately after missile firing, shut down the following electrical power sources. <ol style="list-style-type: none"> a. Power Distribution Trailer. <ol style="list-style-type: none"> (1) Turn both Energizer Output switches Off. (2) Depress Off pushbuttons for both energizers. (3) Turn circuit breakers CB-1, CB-2, CB-3, CB-4, CB-5, CB-6, and CB-7 Off. b. 60 KW Generator. <p>Power down the generator according to instructions mounted on instrument panel door.</p> 2. Power down the Air Compressor. 3. Power down the Air Servicer. 4. Vent all sources of air and pneumatic lines. 	<p>POST FIRING OPERATIONS</p> <ol style="list-style-type: none"> 1. Close down the LOX replenishing trailer as follows: <ol style="list-style-type: none"> a. Close valve numbers 27 and 11. b. Open valve number 24. c. Open valve numbers 14 and 28. d. Disconnect the LOX replenishing valve from the trailer. e. Remove the LOX trailer from the area.
<p>ALL AVAILABLE PERSONNEL ASSIST IN DISCONNECTING AND REMOVING ALL AIRLINES, ELECTRICAL CABLES, LOX HOSES. THIS EQUIPMENT AND ALL OTHER ACCESSORY EQUIPMENT SHOULD BE STORED IN ITS PROPER POSITION ON THEIR CARRYING VEHICLES. RETURN THIS EQUIPMENT TO ITS ORIGINAL POSITION IN THE REVERSE ORDER OF ITS REMOVAL. MARCH ORDER ALL EQUIPMENT.</p>		
END OF OPERATION	END OF OPERATION	END OF OPERATION
END OF TABLE XVIII	END OF TABLE XVIII	END OF TABLE XVIII

Table XIX

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—electrical and pneumatic
RETEST AND ABORT FIRING	RETEST AND ABORT FIRING	RETEST FOR ABORT FIRING	RETEST FOR ABORT FIRING	RETEST FOR ABORT FIRING	RETEST FOR ABORT FIRING	RETEST FOR ABORT FIRING

THE CONDITION FOR RETESTING MAY OCCUR AFTER A SIMULATED FIRING, AFTER A MISFIRE, OR AFTER AN INTERRUPTION BEFORE FIRING. IF ANY OF THESE CONDITIONS OCCUR, THERE IS A SPECIFIC METHOD WHICH MUST BE FOLLOWED FOR RECONNECTING THE TEST STATION. THIS TABLE OUTLINES THE PROCEDURE TO BE FOLLOWED.

					INSURE THAT ALL PERSONNEL REMAIN AT LEAST 100 FEET AWAY FROM MISSILE.	1. Turn 3,000 psi Solenoid Switch Off (Air Servicer). INSURE THAT ALL PERSONNEL REMAIN AT LEAST 100 FEET AWAY FROM MISSILE.
					2. Turn emergency vent On for 2 minutes (RF). a. Air vents from the missile. b. Preparation Complete lamp Off (RF). INSURE THAT ONLY ONE MAN IS ALLOWED TO GO TO THE MISSILE TO PERFORM STEPS 3.	
					3. Disconnect Plug P-3219 from relay box.	3. Reset 3,000 psi regulator to 2,000 psi (Air Servicer).
	ALL NECESSARY PERSONNEL MAY NOW RETURN TO THE FIRING AREA.				ALL NECESSARY PERSONNEL MAY NOW RETURN TO THE FIRING AREA.	ALL NECESSARY PERSONNEL MAY NOW RETURN TO THE FIRING AREA.
4. Insure that the following switches are in the positions as indicated: a. Air conditioner circuit breakers Off. b. Heater switch Off. c. Inverter Power switch On (IC).	4. Insure that the following switches are in the operating position as indicated: a. Operation Selector switch in Remote position (PP). b. Pressurize switch On (PP). c. Networks and Inverter	4. Insure that the following switches are in the operating position as indicated: a. Gyros switch On (SC). b. Amplifiers switch On (SC). c. Erection switch On (SC). d. Correction switch On (SC).	4. Insure that the following switch is in the operating position as indicated: Power switch On (PD).	4. Remove P-4017 from tail distributor.		4. Turn 3,000 psi Solenoid Switch On (Air Servicer).

Table XIX—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—electrical and pneumatic
RETEST AND ABORT FIRING—Con. d. Commu- nications Power Selector switch in MG Set position. e. Power switch On (PG).	RETEST AND ABORT FIRING—Con. BUS switches On and Com- mand BUS switch in missile position. d. 60 cps Voltage switch On (EP). e. Valve Test Selector switch Off (TP).	RETEST FOR ABORT FIRING—Con. e. FINE switch Off (SC). f. Platform Heater switch On (SC). g. Control Computer switch On (SP). h. Rudder Drive switch On (SP). i. Guidance Cutout switch On (SP). j. Power switch On (CM). k. Selector switch to war- head arm po- sition (CM).	RETEST FOR ABORT FIRING—Con.	RETEST FOR ABORT FIRING—Con.	RETEST FOR ABORT FIRING—Con.	RETEST FOR ABORT FIRING—Continued
					5. Reconnect Test Station in the following order: CABLE NO. FROM TO Ground Generator TS Connector cable Ground Rod Panel W-3834 AC Distribu- TS J-4 tion Box 60 Amp outlet W-3556 Relay Box TS J-1021 J-3204 W-3551 Fin III J- TS J-1023 4103D W-3555 Relay Box TS J-1026 J-3206 W-3554 Relay Box TS J-1022 J-3205	5. Assist the Firing Section in reconnecting the Test Station.

Table XIX—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—electrical and pneumatic
RETEST AND ABORT FIRING—Con.	RETEST AND ABORT FIRING—Con.	RETEST FOR ABORT FIRING—Con. MONITOR ST-80 AFTER RECONNECTION OF TEST STATION TO INSURE IT REMAINS STABILIZED.	RETEST FOR ABORT FIRING—Con.	RETEST FOR ABORT FIRING—Con.	RETEST FOR ABORT FIRING—Con.	RETEST FOR ABORT FIRING—Continued
		6. If ST-80 should become erratic turn correction switch Off until ST-80 stabilizes. Then turn correction switch On.			6. Reconnect telephone headset at relay box.	
	7. Turn Operation Selector switch to Prelaunch and then to Test position (PP).	7. Immediately after the operation selector switch has been turned to the test position dial position 10 then dial Home on the function selector switch (SC).			7. Remote Command lamp Off (RF).	
		8. Turn Selector switch to Warhead Safe position (CM). a. Power On Lamp On (CM) b. Warhead Safe lamps On (CM).				

Table XIX—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—electrical and pneumatic
RETEST AND ABORT FIRING—Con.	RETEST AND ABORT FIRING—Con.	RETEST FOR ABORT FIRING—Con. c. Warhead Arm lamps Off (CM). d. Warhead Continuity lamps Off (CM). e. S&A Continuity lamps Off (CM).	RETEST FOR ABORT FIRING—Con.	RETEST FOR ABORT FIRING—Con.	RETEST FOR ABORT FIRING—Con.	RETEST FOR ABORT FIRING—Continued
		9. If the Burst Selector switch was set to Surface, return to Air position (CM). a. Warhead Safe lamps remain On (CM). b. Air lamps On (CM). c. Surface lamps Off (CM).				
		10. Turn Power switch Off (CM). a. Warhead Safe lamps remain On (CM). b. Power lamps Off (CM).				

Table XIX—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—electrical and pneumatic
RETEST AND ABORT FIRING—Con.	RETEST AND ABORT FIRING—Con.	RETEST FOR ABORT FIRING—Con. 11. Turn Rudder Drive switch Off (SP).	RETEST FOR ABORT FIRING—Con.	RETEST FOR ABORT FIRING—Con.	RETEST FOR ABORT FIRING—Con.	RETEST FOR ABORT FIRING—Continued
<p>PREPARATION IS NOW COMPLETE FOR RETEST. UPON COMPLETION OF RETEST, TABLE XVII, PREPARATION FOR FIRING AND FIRING OPERATIONS MUST BE PERFORMED AGAIN BEFORE FIRING.</p> <p>IF FIRING IS POSTPONED AND SHUTDOWN PROCEDURES ARE REQUIRED, FOLLOW STEPS 19 THROUGH 29, TABLE XIII, VERTICAL POWER CHECK.</p>						
END OF TABLE XIX	END OF TABLE XIX	END OF TABLE XIX	END OF TABLE XIX	END OF TABLE XIX	END OF TABLE XIX	END OF TABLE XIX

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